



Android Developer

Entry level test

Hi!

Our Android team here at Napptilus Tech Labs just received a requirement to develop an app to manage the *Oompa Loompa*'s crew of Willy Wonka's chocolate factory. Some kind of help to the company's Human Resources dept. (they are very modern in some aspects and they have smartphones and access to the Internet, for instance).

Luckily, Willy Wonka coded a server that provides a complete list of Oompa Loompa workers:

<https://2q2woep105.execute-api.eu-west-1.amazonaws.com/napptilus/oompa-loompas?page=1>

You can use the "page" query param in order to select which page you want to receive.

Furthermore, the server returns the details of each Oompa Loompa by making a call to:

<https://2q2woep105.execute-api.eu-west-1.amazonaws.com/napptilus/oompa-loompas/{id}>

Where {id} is the Oompa Loompa identifier.

In the factory there's a lot of work and they need a tool to list workers, see their details and even filter by gender, profession or both of them.

Write an Android application to help Willy Wonka's HR Department browse and to check the details of the Oompa Loompas.

Specifications:

- Retrieve data from the URLs provided.
- Use as many third party libraries as you want but, please, document all libraries you have used and explain the reason why you've used them.
- UI must not be blocked by network connections or long operations.
- Show this data in a user-friendly way. Keep in mind that the Human Resources will be quite busy dealing with chocolate, so apps have to be really simple and easy to use. At least would be good to quickly browse all the Oompa Loompas and be able to see the details of each one at some detail screen.
- Document all libraries used and explain the reason why you've used that library.

Bonus:

- Be creative!
- Use Kotlin
- Cache images coming from network to improve performance
- Error handling
- Response caching
- Implement tests
- Possibility to filter the list by gender, profession or both
- Provide sweet layouts!

This test is aimed at knowing how you code an app, the technical decisions you take along the process and the overall cleanliness of your code. We do not require the app to be complete, but it is always a bonus.

[Happy coding!](#)